

WHAT IS CLAIMED IS:

1. A client-server security system comprising:
 - a client system receiving first biometric data and having a first level security authorization procedure; and
 - a server system receiving second biometric data and having a second level security authorization procedure;
 - wherein the first level security authorization procedure and the second level security authorization procedure comprise distinct biometric algorithms.
2. The client-server security system of claim 1 wherein the first biometric data comprises speech data.
3. The client-server security system of claim 2 wherein the speech data comprises to a password.
4. The client-server security system of claim 1 wherein the second biometric data comprises speech data.
5. The client-server security system of claim 1 wherein the first level of security authorization comprises user verification.
6. The client-server security system of claim 1 wherein the second level of security authorization comprises user identification.
7. The client-server security system of claim 1 wherein the first level of security authorization comprises a neural network.
8. The client-server security system of claim 1 wherein the second level of security authorization comprises Hidden Markov Models.
9. A method of performing a secured transaction on a server system comprising:
 - receiving a first level security authorization signal on the server system from a client system;
 - receiving biometric data on the server system from the client system;

6 executing a second level security authorization, the second level security
7 authorization including analyzing the biometric data using a first biometric algorithm on the
8 server system; and
9 generating a second level security authorization signal on the server system
10 when the first biometric algorithm indicates that the biometric data corresponds to one of a
11 plurality of users authorized to access the server system.

1 10. The method of claim 9 wherein the first level security authorization
2 signal indicates that a user has been authorized on the client system by a second biometric
3 algorithm on the client system.

1 11. The method of claim 9 wherein the first level security authorization
2 signal indicates that a user has not been authorized on a client system by a second biometric
3 algorithm on the client system.

1 12. The method of claim 9 further comprising re-executing the second
2 level security authorization on the server system.

1 13. The method of claim 9 further comprising receiving control
2 information from the client system.

1 14. The method of claim 13 wherein the control information comprises a
2 verification confidence value.

1 15. The method of claim 14 further comprising modifying an acceptance
2 threshold of the first biometric algorithm in accordance with the verification confidence
3 value.

1 16. The method of claim 14 further comprising analyzing second biometric
2 data using the first biometric algorithm when the verification confidence value within a first
3 range.

1 17. The method of claim 14 further comprising prompting the user for
2 additional biometric information when the verification confidence value is within a first
3 range.

3 algorithm with a first input parameter value when the line quality measure is in a first range,
4 and loading the first biometric algorithm with a second input parameter value when the line
5 quality measure is in a second range.

1 30. The method of claim 9 further comprising receiving a channel type
2 signal in the server system, and in accordance therewith, loading the first biometric algorithm
3 with a first input parameter value when the channel type has a first value, and loading the first
4 biometric algorithm with a second input parameter value when the channel type has a second
5 value.

1 31. A method of performing a secured transaction on a client system
2 comprising:
3 receiving biometric data in the client system;
4 analyzing a first portion of the biometric data using a first biometric algorithm
5 on the client system;
6 generating a first level security authorization signal on the client system when
7 the first biometric algorithm indicates that the first portion of the biometric data corresponds
8 to an authorized user;
9 transmitting the first level security authorization signal and second portion of
10 the biometric data to a server system, the second portion of biometric being analyzed by a
11 second biometric algorithm on the server; and
12 accessing resources on the server system through the client system when the
13 second biometric algorithm provides a second level security authorization.

1 32. The method of claim 31 further comprising generating a verification
2 confidence value and transmitting the verification confidence level to the server system.

1 33. The method of claim 32 further comprising modifying an acceptance
2 threshold of the second biometric algorithm in accordance with the verification confidence
3 value.

1 34. The method of claim 32 further comprising transmitting second
2 biometric data to the server system and analyzing the second biometric data using the second
3 biometric algorithm when the verification confidence value is within a first range.

1 35. The method of claim 31 further comprising generating authorization
2 limitation criteria and transmitting the authorization limitation criteria to the server system.

1 36. The method of claim 35 wherein the authorization limitation criteria
2 comprises remote resource access restrictions.

1 37. The method of claim 35 wherein the authorization limitation criteria
2 comprises spending amount limitations.

1 38. The method of claim 31 wherein the first portion of the biometric data
2 is speech data and the first biometric algorithm is a speaker recognition algorithm.

1 39. The method of claim 38 wherein the speech data comprises a
2 password.

1 40. The method of claim 31 wherein the second portion of the biometric
2 data is speech data and the second biometric algorithm is a speaker recognition algorithm.

1 41. The method of claim 40 wherein the speech data comprises an
2 utterance.

1 42. The method of claim 31 wherein client system is a portable media
2 player.

1 43. The method of claim 31 wherein client system is a smart card.